

Amendments to the Claims

Claim 1-66 (cancelled).

Claim 67 (currently amended): A gel, comprising:

acrylamide; and

a gel buffer having a pH between 6 and 8, wherein said gel buffer comprises bis(2-hydroxyethyl) iminotris (hydroxymethyl) methane,

wherein said gel is an electrophoresis separating gel.

Claim 68 (previously added): The gel of claim 67, wherein said gel is precast.

Claim 69 (canceled).

Claim 70 (canceled).

Claim 71 (previously added): The gel of claim 67, said gel having a shelf life that is greater than or equal to one month when said gel is stored under refrigeration.

Claim 72 (previously added): The gel of claim 67, wherein said pH is based on titration with hydrochloric acid.

Claim 73 (currently amended): The gel of claim 67, wherein said gel buffer has a pH of between 6.5 and 7.5.

Claim 74 (new): The gel of claim 67, wherein said gel is has a pH of about 7.

Claim 75 (new): The gel of claim 71, said gel having a shelf life of at least one year.

Claim 76 (new): The gel of claim 67, further comprising between 3 and 25 percent acrylamide.

Claim 77 (new): The gel of claim 76, further comprising about 10 percent acrylamide

Claim 77 (new): The gel of claim 76, further comprising about 12 percent acrylamide.

Claim 78 (new): A gel electrophoresis system, comprising:

a separating gel including acrylamide and a bis(2-hydroxyethyl) iminotris
(hydroxymethyl) methane gel buffer having a pH between 6 and 8;
an electrophoresis unit; and
at least one running buffer.

Claim 79 (new): The gel electrophoresis system of claim 78, wherein said electrophoresis unit is a mini-gel unit.

Claim 80 (new): The gel electrophoresis system of claim 78, wherein said at least one running buffer is selected from the group comprising MES and MOPS.

Claim 81 (new): The gel electrophoresis system of claim 78, wherein said separating gel has a pH of about 7.

Claim 82 (new): The gel electrophoresis system of claim 78, wherein said separating gel has a shelf life of at least one year.

Claim 83 (new): The gel electrophoresis system of claim 78, further comprising a plurality of separating gels.

Claim 84 (new): The gel electrophoresis system of claim 78, wherein said separating gel is between 3 and 25 percent acrylamide.

Claim 85 (new): The gel electrophoresis system of claim 84, wherein said separating gel is about 10 percent acrylamide

Claim 86 (new): The gel electrophoresis system of claim 84, wherein said separating gel is about 12 percent acrylamide.